

CLAIMS

What is claimed is:

- 1 1. A roof tie for connecting wood members in building structures, comprising:
 - 2 a. a first connector, comprising:
 - 3 (1) a first substantially horizontal member having a forward edge, a
 - 4 rear edge, an inside edge, and an outside edge;
 - 5 (2) a first flap fixedly connected and extending downwardly at right
 - 6 angles from said forward edge of said first horizontal member;
 - 7 (3) a second flap hingedly connected and extending downwardly at
 - 8 right angles from said rear edge of said first horizontal member;
 - 9 and
 - 10 (4) a first riser extending substantially vertical at a right angle from
 - 11 said inside edge of said first horizontal member;
 - 12 b. a bridge component, comprising:
 - 13 (1) a substantially horizontal crosspiece member;
 - 14 (2) a short riser on a first side of said crosspiece member substantially
 - 15 perpendicular to said crosspiece member, wherein said short riser
 - 16 is shorter than said first riser of said first connector; and
 - 17 (3) an overlap plate on a second side of said crosspiece member
 - 18 substantially perpendicular to said crosspiece member; wherein
 - 19 said overlap plate is pierced by at least one aperture and said first
 - 20 riser is pierced by at least one slot for inserting a fastener
 - 21 therethrough, such that said at least one aperture on said overlap
 - 22 plate can align with said at least one slot on said first riser when
 - 23 said overlap plate overlaps said first riser;
 - 24 c. a second connector, comprising:
 - 25 (1) a second substantially horizontal member having a forward edge, a
 - 26 rear edge, an inside edge, and an outside edge;
 - 27 (2) a flap extending downwardly at right angles from said forward
 - 28 edge of said second horizontal member;

29 (3) a wall extending substantially vertical at a right angle from said
30 inside edge of said second horizontal member, and
31 (4) a turnbuckle having a body, a first threaded portion, and a second
32 threaded portion, wherein
33 i. said first threaded portion being attached to said short riser of
34 said bridge component; and
35 ii. said second threaded portion being attached to said second
36 horizontal member;
37 d. a third connector, comprising:
38 (1) a third substantially horizontal member having a forward edge, a
39 rear edge, an inside edge, and an outside edge;
40 (2) a flap extending downwardly at right angles from said rear edge of
41 said third horizontal member;
42 (3) a wall extending substantially vertical at a right angle from said
43 inside edge of said third horizontal member, and
44 (4) a turnbuckle having a body, a first threaded portion, and a second
45 threaded portion, wherein
46 i. said first threaded portion being attached to said short riser of
47 said bridge component; and
48 ii. said second threaded portion being attached to said third
49 horizontal member; and
50 e. said first connector, second connector, third connector, and said bridge
51 component being adapted for attaching said roof tie to a first roofing
52 member and a second roofing member.

1 2. The roof tie according to claim 1, further comprising:
2 means for attaching roof decking to said second roofing member through said
3 bridge component.

1 3. The roof tie according to claim 2 wherein said means for attaching roof decking to
2 said second roofing member through said bridge component comprises a wide aperture
3 area.

1 4. The roof tie according to claim 1 wherein said overlap plate is disposed away
2 from said crosspiece member by a ledge.

1 5. The roof tie according to claim 1, said first connector further comprising:
2 a wall extending upwardly at a right angle from said outside edge of said first
3 horizontal member.

1 6. The roof tie according to claim 5 wherein said wall is shorter than said first riser
2 of said first connector.

1 7. The roof tie according to claim 1, further comprising:
2 a. said first riser having a forward edge and a rear edge, wherein said
3 forward edge is longer than said rear edge; and
4 b. said bridge component is angled corresponding to a predetermined roof
5 pitch.

1 8. The roof tie according to claim 1, said second connector further comprising:
2 a wing member extending from the rear edge of said wall and connected to said
3 second horizontal member along said rear edge of said second horizontal member.

1 9. The roof tie according to claim 1, said third connector further comprising:
2 a wing member extending from the rear edge of said wall and connected to said
3 third horizontal member along said rear edge of said third horizontal member.

1 10. The roof tie according to claim 1, said first connector further comprising:
2 an appendage extending substantially perpendicular from the bottom edge of said
3 first flap.

1 11. The roof tie according to claim 10 wherein said appendage presents a sharpened
2 edge configured to penetrate into said first roofing member.

1 12. The roof tie according to claim 1, said second connector further comprising:
2 an appendage extending substantially perpendicular from the bottom edge of said
3 flap.

1 13. The roof tie according to claim 12 wherein said appendage presents a sharpened
2 edge configured to penetrate into said first roofing member.

1 14. The roof tie according to claim 1, said third connector further comprising:
2 an appendage extending substantially perpendicular from the bottom edge of said
3 flap.

1 15. The roof tie according to claim 14 wherein said appendage presents a sharpened
2 edge configured to penetrate into said first roofing member.